INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/11939

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01L27/105, H01L43/08, G11C11/15			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED	hu despision symbols)		
Minimum documentation searched (classification system followed Int.Cl ⁷ H01L27/105, H01L43/08, G11	c11/15		
Documentation searched other than minimum documentation to the	e extent that such documents are included in the fields searched		
Jitsuyo Shinan Koho 1922-1996 Kokai Jitsuyo Shinan Koho 1971-2003	Jitsuyo Shinan Toroku Koho 1996—2003 Toroku Jitsuyo Shinan Koho 1994—2003		
Electronic data base consulted during the international search (name	e of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category* Citation of document, with indication, where an	opropriate, of the relevant passages Relevant to claim No.		
P,A US 2003/0039062 A1 (TAKAHASE 27 February, 2003 (27.02.03) Par. Nos. [0009] to [0073] & JP 2003-069107 A Par. Nos. [0001] to [0045]			
P,A JP 2003-174148 A (Sony Corp. 20 June, 2003 (20.06.03), Full text (Family: none)	1-4		
A JP 2002-231904 A (Mitsubishi 16 August, 2002 (16.08.02), Full text & US 2002/0145902 A1 Full text	Electric Corp.), 1-4		
Further documents are listed in the continuation of Box C.	See patent family annex.		
* Special categories of cited documents: A" document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family			
Date of the actual completion of the international search 02 December, 2003 (02.12.03)	Date of mailing of the international search report 16 December, 2003 (16.12.03)		
Name and mailing address of the ISA/	Authorized officer		
Japanese Patent Office Facsimile No.	Telephone No.		

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PCT/JP03/11939

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A	US 6191989 B1 (International Business Machines Corp.), 20 February, 2001 (20.02.01), Full text (Family: none)	1-4
A	US 5732016 A (Motorola), 24 March, 1998 (24.03.98), Full text & JP 10-116489 A Full text	1-4
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